

Mehmet GÃ¼lcan

List of Publications by Year in descending order

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64
papers

1,907
citations

304743

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265206

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Pd-MnO nanoparticles dispersed on amine-grafted silica: Highly efficient nanocatalyst for hydrogen production from additive-free dehydrogenation of formic acid under mild conditions. <i>Applied Catalysis B: Environmental</i> , 2015, 164, 324-333.	20.2	137
2	Synthesis and characterization of Reishi mushroom-mediated green synthesis of silver nanoparticles for the biochemical applications. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 178, 112970.	2.8	129
3	PdAu-MnO nanoparticles supported on amine-functionalized SiO ₂ for the room temperature dehydrogenation of formic acid in the absence of additives. <i>Applied Catalysis B: Environmental</i> , 2016, 180, 586-595.	20.2	121
4	MnO _x -Promoted PdAg Alloy Nanoparticles for the Additive-Free Dehydrogenation of Formic Acid at Room Temperature. <i>ACS Catalysis</i> , 2015, 5, 6099-6110.	11.2	120
5	Ruthenium(0) nanoparticles stabilized by metal-organic framework (ZIF-8): Highly efficient catalyst for the dehydrogenation of dimethylamine-borane and transfer hydrogenation of unsaturated hydrocarbons using dimethylamine-borane as hydrogen source. <i>Applied Catalysis B: Environmental</i> , 2014, 160-161, 534-541.	20.2	107
6	Amylamine stabilized platinum(0) nanoparticles: active and reusable nanocatalyst in the room temperature dehydrogenation of dimethylamine-borane. <i>RSC Advances</i> , 2014, 4, 1526-1531.	3.6	98
7	Determination of vanillin in commercial food product by adsorptive stripping voltammetry using a boron-doped diamond electrode. <i>Food Chemistry</i> , 2013, 141, 1821-1827.	8.2	95
8	Synthesis and characterization of Rosa canina-mediated biogenic silver nanoparticles for anti-oxidant, antibacterial, antifungal, and DNA cleavage activities. <i>Heliyon</i> , 2019, 5, e02980.	3.2	88
9	Metal-organic framework (MIL-101) stabilized ruthenium nanoparticles: Highly efficient catalytic material in the phenol hydrogenation. <i>Microporous and Mesoporous Materials</i> , 2016, 226, 94-103.	4.4	81
10	Palladium(0) nanoparticles supported on metal organic framework as highly active and reusable nanocatalyst in dehydrogenation of dimethylamine-borane. <i>Applied Catalysis B: Environmental</i> , 2014, 147, 394-401.	20.2	60
11	Rhodium nanoparticles stabilized by sulfonic acid functionalized metal-organic framework for the selective hydrogenation of phenol to cyclohexanone. <i>Journal of Molecular Catalysis A</i> , 2015, 410, 209-220.	4.8	59
12	Carbon-nanotube-based rhodium nanoparticles as highly-active catalyst for hydrolytic dehydrogenation of dimethylamineborane at room temperature. <i>Journal of Colloid and Interface Science</i> , 2018, 530, 321-327.	9.4	55
13	Green synthesis of palladium nanoparticles: Preparation, characterization, and investigation of antioxidant, antimicrobial, anticancer, and DNA cleavage activities. <i>Applied Organometallic Chemistry</i> , 2021, 35, e6272.	3.5	52
14	Palladium nanoparticles decorated on amine functionalized graphene nanosheets as excellent nanocatalyst for the hydrogenation of nitrophenols to aminophenol counterparts. <i>Journal of Hazardous Materials</i> , 2019, 369, 96-107.	12.4	49
15	Hydroxyapatite-nanosphere supported ruthenium(0) nanoparticle catalyst for hydrogen generation from ammonia-borane solution: kinetic studies for nanoparticle formation and hydrogen evolution. <i>RSC Advances</i> , 2014, 4, 28947-28955.	3.6	35
16	Catalytic methanolysis and hydrolysis of hydrazine-borane with monodisperse Ru NPs@nano-CeO ₂ catalyst for hydrogen generation at room temperature. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 13432-13442.	7.1	31
17	Single-walled carbon nanotube supported Pt-Ru bimetallic superb nanocatalyst for the hydrogen generation from the methanolysis of methylamine-borane at mild conditions. <i>Scientific Reports</i> , 2019, 9, 15724.	3.3	28
18	A new highly active polymer supported ruthenium nanocatalyst for the hydrolytic dehydrogenation of dimethylamine-borane. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 99, 60-65.	5.3	28

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19	The novel pyridine based symmetrical Schiff base ligand and its transition metal complexes: synthesis, spectral definitions and application in dye sensitized solar cells (DSSCs). Journal of Materials Science: Materials in Electronics, 2018, 29, 898-905.	2.2	27
20	Palladium(0) nanoparticles supported on hydroxyapatite nanospheres: active, long-lived, and reusable nanocatalyst for hydrogen generation from the dehydrogenation of aqueous ammonia-borane solution. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	26
21	Mononuclear Complexes Based on Pyrimidine Ring Azo Schiff Base Ligand: Synthesis, Characterization, Antioxidant, Antibacterial, and Thermal Investigations. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 1754-1762.	1.2	26
22	Monodisperse Ru Rh bimetallic nanocatalyst as highly efficient catalysts for hydrogen generation from hydrolytic dehydrogenation of methylamine-borane. Journal of Molecular Liquids, 2019, 285, 1-8.	4.9	24
23	Silver nanoparticles stabilized by a metal-organic framework (MIL-101(Cr)) as an efficient catalyst for imine production from the dehydrogenative coupling of alcohols and amines. Catalysis Science and Technology, 2020, 10, 4990-4999.	4.1	24
24	Transition Metal (II) Complexes with a Novel Azo-azomethine Schiff Base Ligand: Synthesis, Structural and Spectroscopic Characterization, Thermal Properties and Biological Applications. Journal of Fluorescence, 2017, 27, 2239-2251.	2.5	22
25	<i>In Situ</i> Formed Ruthenium(0) Nanoparticles Supported on TiO ₂ Catalyzed Hydrogen Generation from Aqueous Ammonia-Borane Solution at Room Temperature Under Air. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2016, 46, 534-542.	0.6	21
26	Preparation and detailed characterization of zirconia nanopowder supported rhodium (0) nanoparticles for hydrogen production from the methanolysis of methylamine-borane in room conditions. International Journal of Hydrogen Energy, 2018, 43, 22548-22556.	7.1	21
27	Pd(0) Nanoparticles Decorated on Graphene Nanosheets (GNS): Synthesis, Definition and Testing of the Catalytic Performance in the Methanolysis of Ammonia Borane at Room Conditions. ChemistrySelect, 2017, 2, 9628-9635.	1.5	20
28	Polypyrrole-multi walled carbon nanotube hybrid material supported Pt NPs for hydrogen evolution from the hydrolysis of MeAB at mild conditions. Scientific Reports, 2019, 9, 18553.	3.3	20
29	Synthesized polyvidone-stabilized Rh(0) nanoparticles catalyzed the hydrolytic dehydrogenation of methylamine-borane in ambient conditions. New Journal of Chemistry, 2017, 41, 11839-11845.	2.8	19
30	Electrical characteristics of organic/inorganic Pt(II) complex/p-Si semiconductor contacts. Materials Science in Semiconductor Processing, 2014, 28, 31-36.	4.0	18
31	Transition Metal(II) Complexes of a Novel Symmetrical Benzothiazole-Based Ligand: Synthesis, Spectral/Structural Characterization and Fluorescence Properties. Journal of Fluorescence, 2014, 24, 1679-1686.	2.5	17
32	Rh (0) nanoparticles impregnated on two-dimensional transition metal carbides, MXene, as an effective nanocatalyst for ammonia-borane hydrolysis. International Journal of Energy Research, 2022, 46, 11411-11423.	4.5	16
33	Palladium Nanoparticles Supported on Hydroxyapatite Nanospheres: Highly Active, Reusable and Green Catalyst for Suzuki-Miyaura Cross Coupling Reactions under Aerobic Conditions. ChemistrySelect, 2018, 3, 1569-1576.	1.5	15
34	Synthesis and Characterization of Cu(II), Ni(II), Co(II), Mn(II), and Cd(II) Transition Metal Complexes of Tridentate Schiff Base Derived from <i>O</i> -Vanillin and <i>N</i> -Aminopyrimidine-2-Thione. Phosphorus, Sulfur and Silicon and the Related Elements, 2011, 186, 1962-1971.	1.6	14
35	Enhancement of adsorption capacity of reduced graphene oxide by sulfonic acid functionalization: Malachite green and Zn (II) uptake. Materials Chemistry and Physics, 2020, 256, 123662.	4.0	14
36	A novel highly active and reusable carbon based platinum-ruthenium nanocatalyst for dimethylamine-borane dehydrogenation in water at room conditions. Scientific Reports, 2020, 10, 7149.	3.3	14

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37	Characterization and antioxidant-antimicrobial activity of silver nanoparticles synthesized using Punica granatum extract. International Journal of Environmental Science and Technology, 2022, 19, 2781-2788.	3.5	14
38	Synthesis, Characterization, DFT Studies, and Photodiode Application of Azo-azomethine-Based Ligand and Its Transition-Metal Complexes. Journal of Electronic Materials, 2018, 47, 7240-7250.	2.2	13
39	Silica supported ternary NiRuPt alloy nanoparticles: Highly efficient heterogeneous catalyst for H ₂ generation via selective decomposition of hydrous hydrazine in alkaline solution. International Journal of Hydrogen Energy, 2020, 45, 27098-27113.	7.1	12
40	Highly efficient and selective one-pot tandem imine synthesis via amine-alcohol cross-coupling reaction catalysed by chromium-based MIL-101 supported Au nanoparticles. Molecular Catalysis, 2021, 501, 111363.	2.0	12
41	Preparation and characterization of amine-terminated delafossite type oxide, CuMnO ₂ •NH ₂ , supported Pd (0) nanoparticles for the H ₂ generation from the methanolysis of ammonia-borane. International Journal of Hydrogen Energy, 2022, 47, 16036-16046.	7.1	12
42	Effects of the r-GO doping on the structural, optical and electrical properties of CdO nanostructured films by ultrasonic spray pyrolysis. Journal of Materials Science: Materials in Electronics, 2020, 31, 2111-2121.	2.2	11
43	Ex situ synthesis and characterization of a polymer-carbon nanotube-based hybrid nanocatalyst with one of the highest catalytic activities and stabilities for the hydrolytic dehydrogenation of hydrazine-borane at room temperature conditions. Journal of Colloid and Interface Science, 2019, 552, 432-438.	9.4	10
44	H ₂ production from the hydrolytic dehydrogenation of methylamine-borane catalyzed by sulfonated reduced graphene oxide-aided synthesis of ruthenium nanoparticles. International Journal of Hydrogen Energy, 2021, 46, 32523-32535.	7.1	10
45	Ohmic and rectifier properties of Al/Ligand(N-APTH) and Al/Cu(II)Complex contacts. Microelectronic Engineering, 2010, 87, 2282-2287.	2.4	9
46	Synthesis and characterization of UTSA-76 metal organic framework containing Lewis basic sites for the liquid-phase adsorption of UVI. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 609, 125663.	4.7	8
47	2, 6-Bis((E)-((5-benzoyl-2-thioxo-4-phenylpyrimidin-1(2H)-yl)imino)methyl)-4-(methyl)phenol and its Metal(II) Complexes: Synthesis, Spectroscopy, Biological Activity, and Photoluminescence Features. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2013, 639, 2282-2289.	1.2	7
48	Synthesis of bis(thiosemicarbazone) derivatives: Definition, crystal structure, biological potential and computational analysis. Phosphorus, Sulfur and Silicon and the Related Elements, 2018, 193, 14-22.	1.6	7
49	Fabrication and characterization of copper nanoparticles anchored on sulfonated reduced graphene oxide as effective catalyst for the reduction of Thioflavine-T cationic dye in aqueous medium. Materials Chemistry and Physics, 2022, 275, 125212.	4.0	6
50	Magnetic nanoparticles. , 2021, , 197-236.		6
51	Manganese oxide octahedral molecular sieves stabilized Rh nanoparticles for the hydrogen production from the ethylenediamine-bisborane hydrolysis. International Journal of Hydrogen Energy, 2022, 47, 16494-16506.	7.1	6
52	Enhancement in the photovoltaic efficiency of dye-sensitized solar cell by doping TiO ₂ with MIL-101 MOF structure. Materials Science in Semiconductor Processing, 2022, 150, 106951.	4.0	6
53	Synthesis, Characterisation and Antimicrobial Activity 1-Aminopyrimidine-2(1H)-Thione and its Co(II), Ni(II), Pd(II) and Pt(II) Complexes. Journal of Chemical Research, 2010, 34, 274-277.	1.3	5
54	Metal/semiconductor contact properties of Al/Co(II)complex compounds. Microelectronic Engineering, 2011, 88, 41-45.	2.4	5

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55	Improved efficiency in dye sensitized solar cell (DSSC) by <i>nano</i> -MIL-101(Cr) impregnated photoanode. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2022, 77, 93-104.	1.5	4
56	Fluorescence Properties and Electrochemical Behavior of Some Schiff Bases Derived from N-Aminopyrimidine. Journal of Fluorescence, 2014, 24, 389-396.	2.5	3
57	Polymer-based nanomaterials to use in hydrogen acquisition and hydrogen energy storage. , 2021, , 153-186.		3
58	Green and efficient oxidative desulfurization of refractory S-compounds from liquid fuels catalyzed by chromium-based MIL-101 stabilized MoOx catalyst. Molecular Catalysis, 2022, 522, 112249.	2.0	3
59	Comparative of MIL101(Cr) and <i>nano</i> -MIL101(Cr) Electrode as an Electrochemical Hydrogen Peroxide Sensor. Electroanalysis, 2022, 34, 1598-1609.	2.9	2
60	Hydrogen generation by hydrolysis of NaBH4 using nanocomposites. , 2021, , 231-248.		1
61	Carbon-based nanostructures and nanomaterials. , 2021, , 103-130.		1
62	1-Amino-5-benzoyl-4-phenylpyrimidin-2(1H)-one. Acta Crystallographica Section E: Structure Reports Online, 2004, 60, o2476-o2478.	0.2	0
63	Biocatalysis: Fundamentals and solvent parameters. , 2021, , 73-84.		0
64	Graphene Functionalizations on Copper by Spectroscopic Techniques. Carbon Nanostructures, 2019, , 313-333.	0.1	0